

Wu, Jennifer

From: Wu, Jennifer
Sent: Wednesday, July 19, 2017 1:01 PM
To: Campbell Hansen, Julie
Cc: Cappellini, Malenna
Subject: Re: My email address

Hi Julie, I just wrapped up my response, so perfect timing. Sorry it took me awhile to get back to you on your monitoring questions on the LNFH permit. Here are responses. Feel free to call if you have questions.

1. Is continuous monitoring acceptable when the permit collection method is a grab sample? *Monitoring that is above and beyond the requirements of the permit are acceptable so long as the grab sample is not associated with a particular method. In the LNFH permit, net settleable solids DO, pH, ammonia as N and turbidity may be collected continuously.*

2. Table 5 requires ammonia nitrogen as N to be collected in surface water. Tables 1, 2, and 3 require total ammonia as nitrogen. Are these the same? *These are both the same. 40 CFR Part 136 refers to ammonia as nitrogen. We will be revising the permit for clarification to make these consistent between tables. This will be included in the response to comments as well.*

3. What is the Table 5 turbidity location for surface water monitoring? *As in Notes 1 and 2 in Table 5, turbidity measures should be taken 1) at a location on the creek upstream above the intake for the Hatchery and 2) at a location on the creek downstream, where the Hatchery effluent can be reasonably believed to have achieved complete mixing with the receiving water.*

4. Surface water monitoring requirements for flow are on page 21 of the draft permit, but not in Table 5. What are the monitoring requirements for flow? *The flow requirement on page 21 of the draft permit are in Section II.B.5. The location to monitor flow are above and below the facility's discharge specified in Section II.B.1. We will be revising the permit for clarification and adding flow to Table 5 with the sampling locations, frequency, and type of sample.*

5. Do turbidity samples need to be collected a turbidity meter or are other sampling methods acceptable? *Although collecting using a turbidity meter is preferred, other sampling methods are acceptable as long as they are consistent with 40 CFR Part 136.*

6. Does Table 2 apply to Outfall 005? If so, how should flow be measured? Is it possible to have grab samples instead of composite samples for total phosphorus for Outfall 005, given the 1-2 week period Outfall 005 is used? *Table 2 applies to Outfall 005. Flow can be measured using any method that is consistent with accepted aquaculture practice. Composite samples for total phosphorus during fish drawdown is 1/week, so there should be 1-2 composite samples collected during fish drawdown. These samples must be collected over the day as grab samples. However, so long as practices are consistent during the day and night and samples are collected that are representative of the operation throughout a 24-hour period, six grab samples can be collected during business hours.*

From: Campbell Hansen, Julie
Sent: Wednesday, July 19, 2017 12:52:14 PM

To: Wu, Jennifer

Subject: My email address

Thanks, hope this reaches you.

Julie Campbell

U.S. Fish and Wildlife Service

Eastern Washington Field Office

11103 E. Montgomery Drive

Spokane, WA 99206

ph: 509-893-8004

email: julie_campbellhansen@fws.gov